

**OPERATION AND MAINTENANCE PLAN
IRRIGATION STORAGE RESERVOIR
CODE 436**

Landowner/Operator _____

Job Location _____

Prepared By _____ Date _____

Operation and Maintenance Items

A properly operated and maintained Irrigation Storage Reservoir is an asset to your farm. This structure was designed and installed to store water until needed at a later time for irrigation purposes. The estimated life span of this installation is at least 10 - 20 years. The life of this installation can be assured and usually increased by developing and carrying out an effective operation and maintenance program. An effective operation and maintenance program includes:

- ☐ Erosion, settlement or cracks in earthen sections must be investigated (to determine the cause) and repaired.
- ☐ Periodically inspect spillways and control gates, valves and weirs for proper functioning and their ability to maintain the water level to design elevations. Remove debris or flow blockages.
- ☐ Inspect concrete for accelerated weathering, spalling, settlement, misalignment or cracks. Repair defects.
- ☐ Inspect rock riprap for accelerated weathering and displacement. Repair to original grades if necessary.
- ☐ Check for unusual seepage on the backside of the dam. Check for water flowing underneath the pipe at the outlet, water flowing in the inlet but not out the outlet, and for water flowing out the outlet but not in the inlet. Make sure all structure drains are functional and soil is not being transported through the drainage system. Screens and/or rodent guards must be maintained and in place.
- ☐ Inspect metal surfaces for rust and other damage. Especially inspect sections in contact with earthfill and/or other materials. Repair or replace damaged sections and apply a protective covering.
- ☐ Repair any rodent, burrowing animal, vandalism, vehicle, or livestock damage.
- ☐ Maintain a vigorous growth of vegetation. This includes reseeding, fertilization, and application of herbicides when necessary. Periodic mowing or short term grazing may also be needed to control height.
- ☐ Maintain fences to prevent unauthorized human or livestock entry.

Other _____
